

# Join the LUMS Team

Lahore University of Management Sciences (LUMS), a premier institution known for its academic excellence, requires committed and competent individuals for the following positions for research projects at the Laboratory of Cyber Physical Networks & Systems (CYPHYNETS) on contract basis. For informal queries, you may contact Dr Abubakr Muhammad, Assistant Professor and Director CYPHYNETS. Please follow the formal application process given at the end.

## **Research Associate / Electronics Engineer**

### **Responsibilities:**

- Lead development of electronics for a smart canal flow measurement system.
- Supervise team's student RAs and technicians in design, development and calibration of electronics;
- Supervise packaging, retrofitting and installation on site;
- Work with team's software engineers to integrate sensors with data dissemination to end user.
- Prepare reports and document results.

### **Requirements:**

- Bachelors or Masters degree in electrical / electronics / computer engineering from an accredited institute;
- At least 3 years of relevant experience;
- Strong communication and presentation skills;
- Extensive development experience in instrumentation, data acquisition, embedded systems and data transmission over GPRS/SMS based services.
- Ability to meet deadlines in a fast paced environment.
- Willingness to do frequent travel and do field work.

### **Contract Details:**

- Project duration: 2 years.
- 1 year initial contract. Renewable to 2 years based on performance.
- Full-time position based at LUMS.
- Salary. Rs 45,000/month all inclusive.

## **Research Associate / Software Engineer**

### **Responsibilities:**

- Lead software development efforts for multiple sponsored projects related to water resources engineering.
- Work in coordination with Govt. agencies and partner institutes to develop user requirements and solutions;
- Develop software frontend for visualizing and invoking complex data processing and computer simulations.

- Develop communication infrastructure for information dissemination to user (e.g. via email, fax-on-demand, website, SMS)
- Collaborate with team's electronics engineers and numerical analysts for technical development.
- Prepare reports and document results.

**Requirements:**

- Masters degree in computer science from an accredited institute, preferably with an engineering background;
- At least 3 years of development experience with exposure to GIS systems;
- Strong communication and presentation skills;
- Ability to meet deadlines in a fast paced environment;

**Contract Details:**

- Project duration: 2 years.
- 1 year initial contract. Renewable to 2 years based on performance.
- Full-time position based at LUMS.
- Salary. Rs 45,000/month all inclusive (or matching experience).

**Research Associate / Numerical Analyst**

**Responsibilities:**

- Lead modeling and simulation of contamination spread and flow models in surface and groundwater models.
- Work with team's software engineers to setup data visualization and information dissemination for end user.
- Supervise students in setting up models and perform data processing
- Prepare reports and document results.

**Requirements:**

- Masters degree in computer science / geosciences / electrical / civil / environmental engineering from an accredited institute;
- At least 3 years of relevant experience;
- Experience of solving partial differential equation, statistical estimation and data assimilation techniques.
- Familiarity with computational geosciences problems.
- Strong communication and presentation skills;
- Ability to meet deadlines in a fast paced environment.
- Willingness to do frequent travel and do field work.

**Contract Details:**

- Project duration: 2 years.
- 1 year initial contract. Renewable to 2 years based on performance.
- Full-time position based at LUMS.
- Salary. Rs 45,000/month all inclusive.

**Laboratory Technician****Responsibilities:**

- Assist in design, development and calibration of electronic systems;
- Assist in packaging, retrofitting and installation on site;
- Routine operation and maintenance of research equipment;
- Procure supplies and materials needed for laboratory research;
- Coordinating work in the laboratory to ensure efficient use is made of expensive pieces of equipment

**Requirements:**

- Diploma in Electrical / Electronic Technology
- Three years of relevant experience;
- Ability to meet deadlines in a fast paced environment.
- Willingness to do frequent travel and do field work.

**Contract Details:**

- Project duration: 2 years.
- 1 year initial contract. Renewable to 2 years based on performance.
- Full-time position based at LUMS.
- Salary. Rs 18,000/month all inclusive.

LUMS is an equal opportunity employer and offers a dynamic and intellectually stimulating work environment.

**Application Procedure:**

Last date to apply for these positions is **April 15, 2012**. Interested candidates should forward their full resumes either by print or preferably by email to:

Syed Sajjad Haider,  
Electrical Engineering Department,  
Lahore University of Management Sciences,  
D.H.A., Lahore Cantt. 54792 Lahore, Pakistan  
Email: [syed.haider@lums.edu.pk](mailto:syed.haider@lums.edu.pk)

*Only short-listed candidates will be contacted.*

**Lahore University of Management Sciences**